

It's fine to rely on

Figures from the textbook, but this figure was never really explained, so you would still need to explain that ΔH is supposed to be parallel to AB .

Proof of Ceva's theorem

Not written in corresponding vertex orders

Using the notation of Figure 4.3 in the textbook, the triangles $\triangle AFX$ and $\triangle CHX$ are

similar: $|AF|/|HC| = |FX|/|CX|$.

you never said why these must be similar

Bad sentence structure. The colon should indicate an equivalence. Better here to say, "Therefore, $|AF|/|HC| = |FX|/|CX|$."

Further similar triangles: $XFB, CGX; ABD, HCD; ABE, ECG$. Reasoning: same.

Again here you need some connecting words.

This abbreviated speech isn't terrible in itself, but it doesn't work here

Therefore $AF/FB = HC/CG$ times $BD/DC = AB/HC$ times $CE/EA = CG/AB$ must

equal 1.

need a comma here.

you can't say, " x/y times $z/w = p/q$ times $u/v = r/s \dots$."

This is not a syntactically correct math sentence and readers will not know what you mean.

"Therefore" is a good connector here, but

Just saying "Therefore..." does not say why this follows. It's too much to expect the reader to locate the right algebra from the claimed similar triangles. You need to do that, then say how it fits together.

because you never gave the reasoning in the first place.