

Proof of Ceva's theorem

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

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

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

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

equal 1.