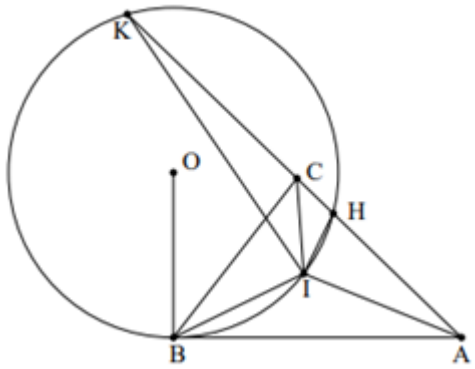
Example 150 : As shown in Figure 3, in $\triangle ABC$, I is the center, $OB \perp BA$, take O as the center and OB as the radius to draw a circle, intersect AC at two points H and K, and I is on the circle. Prove that: IC is Angle bisector *of* $\angle$HI K.



$$\frac{I-K}{I-C}/\frac{I-C}{I-H}=\frac{H-K}{A-C}\left(\frac{C-A}{C-I}/\frac{C-I}{C-B}\right)\left(\frac{B-H}{B-I}/\frac{K-H}{K-I}\right)\left(\frac{H-I}{H-B}/\frac{B-C}{B-I}\right),$$